



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/254,760A

DATE: 07/03/2002

TIME: 12:15:50

Input Set : A:\Sequence Listing.txt
 Output Set: N:\CRF3\07032002\I254760A.raw

3 <110> APPLICANT: Kato, Seishi
 4 Sekine, Shingo
 5 Kimura, Tomoko
 6 Kobayashi, Midori
 8 <120> TITLE OF INVENTION: HUMAN PROTEINS HAVING SECRETORY SIGNAL
 9 SEQUENCES AND DNAs ENCODING THESE PROTEINS
 11 <130> FILE REFERENCE: GIN-6704CPUS
 13 <140> CURRENT APPLICATION NUMBER: US 09/254,760A
 14 <141> CURRENT FILING DATE: 1999-04-16
 16 <150> PRIOR APPLICATION NUMBER: JP 8/243,060
 17 <151> PRIOR FILING DATE: 1996-09-13
 19 <150> PRIOR APPLICATION NUMBER: PCT/JP97/03239
 20 <151> PRIOR FILING DATE: 1997-09-12
 22 <160> NUMBER OF SEQ ID NOS: 27
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 154
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
 32 Met Lys Val Ser Ala Ala Ala Leu Ala Val Ile Leu Ile Ala Thr Ala
 33 1 5 10 15
 34 Leu Cys Ala Pro Ala Ser Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro
 35 20 25 30
 36 Cys Cys Phe Ala Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys
 37 35 40 45
 38 Glu Tyr Phe Tyr Thr Ser Gly Lys Cys Ser Asn Pro Ala Val Val His
 39 50 55 60
 40 Arg Ser Arg Met Pro Lys Arg Glu Gly Gln Gln Val Trp Gln Asp Phe
 41 65 70 75 80
 42 Leu Tyr Asp Ser Arg Leu Asn Lys Gly Lys Leu Cys His Pro Lys Glu
 43 85 90 95
 44 Pro Pro Ser Val Cys Gln Pro Arg Glu Met Gly Ser Gly Val His
 45 100 105 110
 46 Gln Leu Phe Gly Asp Glu Leu Gly Trp Arg Val Leu Glu Pro Glu Leu
 47 115 120 125

55 <211> LENGTH: 154

56 <212> TYPE: PRT

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57 <213> ORGANISM: Homo sapiens
 59 <400> SEQUENCE: 2
 60 Met Asp Leu Arg Gln Phe Leu Met Cys Leu Ser Leu Cys Thr Ala Phe
 61 1 5 10 15
 62 Ala Leu Ser Lys Pro Thr Glu Lys Lys Asp Arg Val His His Glu Pro
 63 20 25 30
 64 Gln Leu Ser Asp Lys Val His Asn Asp Ala Gln Ser Phe Asp Tyr Asp
 65 35 40 45
 66 His Asp Ala Phe Leu Gly Ala Glu Glu Ala Lys Thr Phe Asp Gln Leu
 67 50 55 60
 68 Thr Pro Glu Glu Ser Lys Glu Arg Leu Gly Lys Ile Val Ser Lys Ile
 69 65 70 75 80
 70 Asp Gly Asp Lys Asp Gly Phe Val Thr Val Asp Glu Leu Lys Asp Trp
 71 85 90 95
 72 Ile Lys Phe Ala Gln Lys Arg Trp Ile Tyr Glu Asp Val Glu Arg Gln
 73 100 105 110
 74 Trp Lys Gly His Asp Leu Asn Glu Asp Gly Leu Val Ser Trp Glu Glu
 75 115 120 125
 76 Tyr Lys Asn Ala Thr Tyr Gly Tyr Val Leu Asp Asp Pro Asp Pro Asp
 77 130 135 140
 78 Asp Gly Phe Asn Tyr Lys Gln Met Met Val Arg Asp Glu Arg Arg Phe
 79 145 150 155 160
 80 Lys Met Ala Asp Lys Asp Gly Asp Leu Ile Ala Thr Lys Glu Glu Phe
 81 165 170 175
 82 Thr Ala Phe Leu His Pro Glu Glu Tyr Asp Tyr Met Lys Asp Ile Val
 83 180 185 190
 84 Val Gln Glu Thr Met Glu Asp Ile Asp Lys Asn Ala Asp Gly Phe Ile
 85 195 200 205
 86 Asp Leu Glu Glu Tyr Ile Gly Asp Met Tyr Ser His Asp Gly Asn Thr
 87 210 215 220
 88 Asp Glu Pro Glu Trp Val Lys Thr Glu Arg Glu Gln Phe Val Glu Phe
 89 225 230 235 240
 90 Arg Asp Lys Asn Arg Asp Gly Lys Met Asp Lys Glu Glu Thr Lys Asp
 91 245 250 255
 92 Trp Ile Leu Pro Ser Asp Tyr Asp His Ala Glu Ala Glu Ala Arg His
 93 260 265 270
 94 Leu Val Tyr Glu Ser Asp Gln Asn Lys Asp Gly Lys Leu Thr Lys Glu
 95 275 280 285
 96 Gln Ile Val Asp Lys Tyr Asp Leu Phe Val Gly Ser Gln Ala Thr Asp
 97 290 295 300
 98 Phe Gly Glu Ala Leu Val Arg His Asp Glu Phe
 99 305 310 315
 102 <210> SEQ ID NO: 3
 103 <211> LENGTH: 158
 104 <212> TYPE: PRT
 105 <213> ORGANISM: Homo sapiens

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110 Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro
 111 20 25 30
 112 Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu
 113 35 40 45
 114 Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly
 115 50 55 60
 116 Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala
 117 65 70 75 80
 118 Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu
 119 85 90 95
 120 His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met
 121 100 105 110
 122 Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His
 123 115 120 125
 124 Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn
 125 130 135 140
 126 Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro
 127 145 150 155
 130 <210> SEQ ID NO: 4
 131 <211> LENGTH: 376
 132 <212> TYPE: PRT
 133 <213> ORGANISM: Homo sapiens
 135 <400> SEQUENCE: 4
 136 Met Val Trp Lys Val Ala Val Phe Leu Ser Val Ala Leu Gly Ile Gly
 137 1 5 10 15
 138 Ala Val Pro Ile Asp Asp Pro Glu Asp Gly Gly Lys His Trp Val Val
 139 20 25 30
 140 Ile Val Ala Gly Ser Asn Gly Trp Tyr Asn Tyr Arg His Gln Ala Asp
 141 35 40 45
 142 Ala Cys His Ala Tyr Gln Ile Ile His Arg Asn Gly Ile Pro Asp Glu
 143 50 55 60
 144 Gln Ile Val Val Met Tyr Asp Asp Ile Ala Tyr Ser Glu Asp Asn
 145 65 70 75 80
 146 Ile Thr Pro Gly Ile Val Ile Asn Arg Pro Asn Gly Thr Asp Val Tyr
 147 85 90 95
 148 Gln Gly Val Pro Lys Asp Tyr Thr Gly Glu Asp Val Thr Pro Gln Asn
 149 100 105 110
 150 Phe Leu Ala Val Leu Arg Gly Asp Ala Glu Ala Val Lys Gly Ile Gly
 151 115 120 125
 152 Ser Gly Lys Val Leu Lys Ser Gly Pro Gln Asp His Val Phe Ile Tyr
 153 130 135 140
 154 Phe Thr Asp His Gly Ser Thr Gly Ile Leu Val Phe Pro Asn Glu Asp
 155 145 150 155 160
 156 Leu His Val Lys Asp Leu Asn Glu Thr Ile His Tyr Met Tyr Lys His
 157 165 170 175

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/254,760A

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Input Set : A:\Sequence Listing.txt
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162 Ala Ala Asn Pro Arg Glu Ser Ser Tyr Ala Cys Tyr Tyr Asp Glu Lys
 163 210 215 220
 164 Arg Ser Thr Tyr Leu Gly Asp Trp Tyr Ser Val Asn Trp Met Glu Asp
 165 225 230 235 240
 166 Ser Asp Val Glu Asp Leu Thr Lys Glu Thr Leu His Lys Gln Tyr His
 167 245 250 255
 168 Leu Val Lys Ser His Thr Asn Thr Ser His Val Met Gln Tyr Gly Asn
 169 260 265 270
 170 Lys Thr Ile Ser Thr Met Lys Val Met Gln Phe Gln Gly Met Lys Arg
 171 275 280 285
 172 Lys Ala Ser Ser Pro Val Pro Leu Pro Pro Val Thr His Leu Asp Leu
 173 290 295 300
 174 Thr Pro Ser Pro Asp Val Pro Leu Thr Ile Met Lys Arg Lys Leu Met
 175 305 310 315 320
 176 Asn Thr Asn Asp Leu Glu Glu Ser Arg Gln Leu Thr Glu Glu Ile Gln
 177 325 330 335
 178 Arg His Leu Asp Tyr Glu Tyr Ala Leu Arg His Leu Tyr Val Leu Val
 179 340 345 350
 180 Asn Leu Cys Glu Lys Pro Tyr Pro Leu His Arg Ile Lys Leu Ser Met
 181 355 360 365
 182 Asp His Val Cys Leu Gly His Tyr
 183 370 375
 186 <210> SEQ ID NO: 5
 187 <211> LENGTH: 173
 188 <212> TYPE: PRT
 189 <213> ORGANISM: Homo sapiens
 191 <400> SEQUENCE: 5
 192 Met Ala Ala Pro Ser Gly Gly Trp Asn Gly Val Arg Ala Ser Leu Trp
 193 1 5 10 15
 194 Ala Ala Leu Leu Leu Gly Ala Val Ala Leu Arg Pro Ala Glu Ala Val
 195 20 25 30
 196 Ser Glu Pro Thr Thr Val Ala Phe Asp Val Arg Pro Gly Gly Val Val
 197 35 40 45
 198 His Ser Phe Ser His Asn Val Gly Pro Gly Asp Lys Tyr Thr Cys Met
 199 50 55 60
 200 Phe Thr Tyr Ala Ser Gln Gly Gly Thr Asn Glu Gln Trp Gln Met Ser
 201 65 70 75 80
 202 Leu Gly Thr Ser Glu Asp His Gln His Phe Thr Cys Thr Ile Trp Arg
 203 85 90 95
 204 Pro Gln Gly Lys Ser Tyr Leu Tyr Phe Thr Gln Phe Lys Ala Glu Val
 205 100 105 110
 206 Arg Gly Ala Glu Ile Glu Tyr Ala Met Ala Tyr Ser Lys Ala Ala Phe
 207 115 120 125
 208 Glu Arg Glu Ser Asp Val Pro Leu Lys Thr Glu Glu Phe Glu Val Thr
 209 130 135 140

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Input Set : A:\Sequence Listing.txt
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216 <210> SEQ ID NO: 6
 217 <211> LENGTH: 73
 218 <212> TYPE: PRT
 219 <213> ORGANISM: Homo sapiens
 220 <400> SEQUENCE: 6
 221 Met Gly Val Ile Leu Glu Ile Phe Arg Met Ile Ile Tyr Leu Thr Phe
 222 1 5 10 15
 223 Pro Val Ala Met Phe Trp Val Ser Asn Gln Ala Glu Trp Phe Glu Asp
 224 20 25 30
 225 Asp Val Ile Gln Arg Lys Arg Glu Leu Trp Pro Pro Glu Lys Leu Gln
 226 35 40 45
 227 Glu Ile Glu Glu Phe Lys Glu Arg Leu Arg Lys Arg Arg Glu Glu Lys
 228 50 55 60
 229 Leu Leu Arg Asp Ala Gln Gln Asn Ser
 230 65 70
 231 <210> SEQ ID NO: 7
 232 <211> LENGTH: 1172
 233 <212> TYPE: PRT
 234 <213> ORGANISM: Homo sapiens
 235 <400> SEQUENCE: 7
 236 Met Arg Pro Phe Phe Leu Leu Cys Phe Ala Leu Pro Gly Leu Leu His
 237 1 5 10 15
 238 Ala Gln Gln Ala Cys Ser Arg Gly Ala Cys Tyr Pro Pro Val Gly Asp
 239 20 25 30
 240 Leu Leu Val Gly Arg Thr Arg Phe Leu Arg Ala Ser Ser Thr Cys Gly
 241 35 40 45
 242 Leu Thr Lys Pro Glu Thr Tyr Cys Thr Gln Tyr Gly Glu Trp Gln Met
 243 50 55 60
 244 Lys Cys Cys Lys Cys Asp Ser Arg Gln Pro His Asn Tyr Tyr Ser His
 245 65 70 75 80
 246 Arg Val Glu Asn Val Ala Ser Ser Ser Gly Pro Met Arg Trp Trp Gln
 247 85 90 95
 248 Ser Gln Asn Asp Val Asn Pro Val Ser Leu Gln Leu Asp Leu Asp Arg
 249 100 105 110
 250 Arg Phe Gln Leu Gln Glu Val Met Met Glu Phe Gln Gly Pro Met Pro
 251 115 120 125
 252 Ala Gly Met Leu Ile Glu Arg Ser Ser Asp Phe Gly Lys Thr Trp Arg
 253 130 135 140
 254 Val Tyr Gln Tyr Leu Ala Ala Asp Cys Thr Ser Thr Phe Pro Arg Val
 255 145 150 155 160
 256 Arg Gln Gly Arg Pro Gln Ser Trp Gln Asp Val Arg Cys Gln Ser Leu
 257 165 170 175
 258 Pro Gln Arg Pro Asn Ala Arg Leu Asn Gly Gly Lys Val Gln Leu Asn
 259 180 185 190
 260 Leu Met Asp Leu Val Ser Gly Ile Pro Ala Thr Gln Ser Gln Ile

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/254,760A

DATE: 07/03/2002
TIME: 12:15:51

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\07032002\I254760A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq# N Pos 13

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/254,760A

DATE: 07/03/2002

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Input Set : A:\Sequence Listing.txt

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L:927 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:22
L:928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0